AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

Claim 1 (Original):   A system comprising:

a data cartridge carrying a non-tape storage medium, wherein the data cartridge includes read/write circuitry to access the non-tape storage medium and an external electrical connector coupled to the read/write circuitry; and

a tape drive emulator having an electrical socket to receive the electrical connector of the data cartridge.

Claim 2 (Original):   The system of claim 1, wherein the socket comprises a zero insertion force (ZIF) socket having a set of connectors that engage the electrical connections of the data cartridge.

Claim 3 (Cancelled).

Claim 4 (Currently Amended):   A system comprising:

a data cartridge carrying a non-tape storage medium, wherein the data cartridge includes an external electrical connector; and

a tape drive emulator having an electrical socket to receive the electrical connector of the data cartridge~~,~~

~~wherein the socket includes a mechanical actuation mechanism operable by a data cartridge library automation system to electrically couple the data cartridge to the tape drive emulator.~~

Claim 5 (Original):   The system of claim 1, wherein the tape drive emulator comprises a host interface to electrically couple the tape drive emulator to a host computing device.

Claim 6 (Currently Amended): The system of claim 5, wherein the host interface conforms to one of the Small Computer System Interface (SCSI), the Fiber Channel interface, ~~the Network Data Management Protocol (NDMP),~~ and the Enhanced Integrated Drive Electronics / AT Attachment (EIDE/ATA) interface.

Claim 7 (Previously presented): The system of claim 5, wherein the tape drive emulator comprises a translation unit to translate commands between the host interface and the electrical socket.

Claim 8 (Currently Amended): The system of claim 7, wherein the translation unit receives data stream commands from the host interface and translates the data stream commands into ~~data block~~ disk drive format commands.

Claim 9 (Cancelled).

Claim 10 (Original): The system of claim 1, wherein the non-tape storage medium comprises a disk-shaped storage medium.

Claim 11 (Original): The system of claim 10, wherein the data cartridge includes a self-contained disk drive housing the disk-shaped storage medium and a disk driver controller.

Claim 12 (Original): The system of claim 10, wherein data cartridge further comprises a disk drive controller to control access to the non-tape storage medium, wherein the controller communicates with the tape drive emulator according to one of the Small Computer System Interface (SCSI), the Fiber Channel interface, and the Enhanced Integrated Drive Electronics / AT Attachment (EIDE/ATA) interface.

Claim 13 (Original): The system of claim 1, wherein the socket of the tape drive emulator provides power to the controller of the data cartridge via the electrical connector of the data cartridge.

Claim 14 (Currently Amended): The system of claim 1, <u>wherein the data cartridge and the tape drive emulator are compatible with existing automation systems</u>~~further comprising an automation unit to selectively retrieve the data cartridge from a plurality of data cartridges conforming to industry standard dimensions for magnetic tape data cartridges~~.

Claim 15 (Original): The system of claim 1, wherein the data cartridge comprises a housing conforming to industry standard dimensions for a magnetic tape drive cartridge.

Claim 16 (Currently Amended): The system of claim 1, wherein the tape drive emulator has a form factor of an industry standard tape drive ~~such that the location of the socket conforms to the location of a slot within the industry standard tape drive~~.

Claim 17-25 (Cancelled).

Claim 26 (Original): A tape drive emulator comprising an electrical socket to receive an electrical connector of a data cartridge carrying a non-tape storage medium.

Claim 27 (Original): The tape drive emulator of claim 26, wherein the socket comprises a zero insertion force (ZIF) socket having a set of connectors that engage the electrical connections of the data cartridge.

Claims 28-29 (Cancelled).

Claim 30 (Original): The tape drive emulator of claim 26, wherein the tape drive emulator comprises a host interface to electrically couple the tape drive emulator to a host computing device.

Claim 31 (Previously presented):   The tape drive emulator of claim 30, wherein the tape drive emulator comprises a translation unit to translate commands between the host interface and the electrical socket.

Claim 32 (Original):   The tape drive emulator of claim 26, further comprising a controller to control access to the non-tape storage medium of the data cartridge.

Claim 33 (Original):   The tape drive emulator of claim 26, wherein the non-tape storage medium comprises a disk-shaped storage medium and the controller within the tape drive emulator comprises a disk drive controller.

Claim 34 (Currently Amended):   The tape drive emulator of claim 26, wherein the tape drive emulator has a form factor of an industry standard tape drive ~~such that the location of the socket conforms to the location of a slot within the industry standard tape drive~~.

Claim 35-37 (Cancelled).